



Docket No.: 0020-5429PUS1

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Yuko SAWAKI et al.

Application No.: 10/551,188

Confirmation No.: 1816

Filed: September 29, 2005

Art Unit: N/A

For: COMPOSITE INDIUM OXIDE PARTICLE,

METHOD FOR PRODUCING SAME, CONDUCTIVE COATING MATERIAL, CONDUCTIVE COATING FILM, AND

CONDUCTIVE SHEET

Examiner: Not Yet Assigned

LETTER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Subsequent to the filing of the above-identified application on September 29, 2005, attached hereto is an English translation of the International Preliminary Examination Report (Form PCT/IPEA/409) that should be made of record in the present application.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or to credit any overpayment to Deposit Account No. 02-2448 for any

Application No.: 10/551,188 Docket No.: 0020-5429PUS1

additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Dated:

OCT 1 9 2006

Respectfully submitted,

John W. Bailey

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Attachment(s)

PATENT COOPERATION TREATY

PCT ·

Translation INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's	or agent's file reference	DOD TYPETHER ACTION	See Form PCT/IPEA/416					
66440	04	FOR FURTHER ACTION						
Internation	al application No.	International filing date (day/month/year	· · · · · · · · · · · · · · · · · · ·					
-	JP2004/004655	31.03.2004	01.04.2003					
Internation	al Patent Classification (IPC) or n	ational classification and IPC	•					
•								
Applicant								
HITA	CHI MAXELL, LTD	•						
1. T	his report is the international prender Article 35 and transmitted to	eliminary examination report, established by the applicant according to Article 36.	y this International Preliminary Examining Authority					
2. T	his REPORT consists of a total o	f 4 sheets, in	cluding this cover sheet.					
	his report is also accompanied by							
_		nd to the International Bureau) a total of _	sheets, as follows:					
a 	-heate of the dose	wintion claims and/or drawings which have	been amended and are the basis for this report and/or					
	sheets containing Instructions).	rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative					
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
		al Bureau only) a total of (indicate type and	number of electronic carrier(s))					
'). [] (sent to the Internation	ar Bureau only) a total of (mercane type and						
	related thereto, in compl	ter readable form only, as indicated in the	, containing a sequence listing and/or tables Supplemental Box Relating to Sequence Listing (see					
	Section 802 of the Admir	nistrative Instructions).	••					
4. 7	This report contains indications re	lating to the following items:						
	Box No. I Basis of	the report						
Ī	Box No. II Priority							
İ		ablishment of opinion with regard to novelty,	inventive step and industrial applicability					
			•					
L	7	unity of invention	to novelty, inventive step or industrial applicability;					
l l	Box No. V Reasone citations	and explanations supporting such statement						
• [Box No. VI Certain	documents cited						
] [Box No. VII Certain	defects in the international application	•					
Box No. VIII Certain observations on the international application								
		Date of completic						
Date of su	bmission of the demand	Date of complete	on or this report					
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Facsimile	No.	Telephone No.						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/004655

Box	No. I	Basis of the report				
1.		n regard to the language, this report is based on the internation cated under this item.	al application in the language in which it was filed, unless otherwise			
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:					
		international search (Rule 12.3 and 23.1(b))				
		publication of the international application (Rule 12.4)				
		international preliminary examination (Rule 55.2 and/o				
2.	rece	n regard to the elements of the international application, this r iving Office in response to an invitation under Article 14 are report):	eport is based on (replacement sheets which have been furnished to the referred to in this report as "originally filed" and are not annexed to			
	\boxtimes	, the international application as originally filed/furnished				
		the description:				
		pages	as originally filed/furnished			
		pages*	received by this Authority on			
		pages*	received by this Authority on			
		the claims:	•			
		nos.	as originally filed/furnished			
		nos.*	1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
		nos.*				
		nos.*	·			
		the drawings:				
			as originally filed/furnished			
		sheets				
		sheets*	received by this Authority on			
		a sequence listing and/or any related table(s) - see Suppleme	ental Box Relating to Sequence Listing.			
3.		The amendments have resulted in the cancellation of:				
		the description, pages				
		the claims, nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		•				
4.		This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as fil	ments annexed to this report and listed below had not been made, since ed, as indicated in the Supplemental Box (Rule 70.2(c)).			
	the description, pages					
		the claims, nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
	any table(s) related to sequence listing (specify):					
	If it	em 4 applies, some or all of those sheets may be marked "sup	erseded."			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/004655

Bo		Reasoned statement under Article 35(2) with regard to noverty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement					
	Novelty (N)	Claims	2-12	_ YES		
		Claims	1, 13-15	_ NO		
	Inventive step (IS)	Claims	2-12	YES		
		Claims	1, 13-15	_ NO		
	Industrial applicability (IA)	Claims	1-15	YES		
		Claims		NO		

2. Citations and explanations (Rule 70.7)

Document 1: JP 3-33185 A (Nichia Chemical Industries, Ltd.), 13 February 1991

Document 2: JP 2001-332134 A (TDK Corp.), 30 November 2001

The inventions set forth in claims 1 and 13 to 15 lack novelty and do not involve an inventive step in the light of documents 1 and 2 cited in the international search report.

Explanation

Document 1 discloses particles of a conductive compound represented by general formula (a), which have an average particle diameter of between 0.01 to 2.00 μm_{\star}

General Formula (a): $In_{(2-x-y)}Sn_xM_yO_z$

Within general formula (a), x conforms to the relational expression $0 < x \le 1$, y conforms to the relational expression $0 < y \le 1$, z conforms to the relational expression $0 < z \le 5$ and M represents Zn, Ti or the like.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

In addition, document 1 (example 3) discloses compounds that are represented by general formula (a), wherein the variable M represents the element Zn.

Conductive films which are obtained by coating a coating material that comprises conductive particles upon a support and then drying said coating material are well known (refer to the claims, paragraph [0036], the examples and the like of document 2); therefore, it would be easy for a person skilled in the art to conceive of configuring a conductive coating material and a conductive film that employ the conductive particles that are disclosed in document 1.